Curriculum Vitae

CV must be written in English

Personal Information

Title **(i.e. Pf., Dr., etc.)**	**Assistant Professor of Medicine**	
Name **(First Name/ Middle Name /Last Name)**	**Dennis / Legen / Shung**	
Degree **(i.e. MD, MSc, PhD, etc.)**	**M.D., M.H.S., Ph.D.**	
Country	**United States of America**	
Affiliation	**Yale**	
E-mail	**Dennis.shung@yale.edu**	

Educational Background

Degree Programs:

Rice University, Houston, TX: Bachelor of Science in Biochemistry & Cell Biology, cum laude; Bachelor of Arts in Hispanic Studies, cum laude

Baylor College of Medicine, Houston, TX: Doctor of Medicine

Yale School of Medicine, New Haven, CT: Masters of Health Science, Clinical Informatics

Yale Graduate School of Arts and Sciences, New Haven, CT: PhD, Investigative Medicine

Medical Training:

Yale-New Haven Hospital, New Haven, CT: Traditional Internal Medicine Residency Program

Yale-New Haven Hospital, New Haven, CT: Gastroenterology & Hepatology Fellowship Program

Professional Career

7/2020 – 5/2021	Instructor in Medicine, Yale School of Medicine, New Haven CT
7/2021 – 7/2022	Associate Research Scientist, Yale School of Medicine, New Haven CT
7/2021 – present	Director of Digital Health, Yale School of Medicine, New Haven CT
7/2022 – present	Assistant Professor of Medicine, Yale School of Medicine, New Haven CT
	Primary: Section of Digestive Disease, Department of Medicine
	Secondary: Biomedical Informatics and Data Science, Department of Medicine
10/2023 – present	Director of Applied Artificial Intelligence, Yale Center for Healthcare Simulation
05/2024 – present	Director of Applied Artificial Intelligence, Yale Clinical and Translational Research Accelerator
02/2022 – present	Honorary Visiting Scientist, Lee Kong Chian School of Medicine, Nanyang Technological University, SIN

Board Certifications:

Internal Medicine, American Board of Internal Medicine

Clinical Informatics, American Board of Preventative Medicine

Gastroenterology and Hepatology, American Board of Internal Medicine

Honors and Awards:

Iva Dostanic Award, Yale Department of Medicine

Samuel Kushlan Junior Faculty Award for Excellence in Clinical Research, Yale School of Medicine

Research Scholar Award, American Gastroenterological Association

Samuel Kushlan Award for Excellence in Research, Yale School of Medicine

Professional Activities:

American Gastroenterological Association

    Lead, AI and Digital Health Taskforce, Center for GI Innovation and Technology Committee 2023-present

    Guideline Content Expert, Clinical Guidelines Committee 2022-present

    Committee Member, Center for GI Innovation and Technology Committee 2022-present

    Co-Chair, Digestive Disease Week 2022 Combined Clinical Symposium on AI and GI

American Society of Gastrointestinal Endoscopy
      Founding Member, AI and GI Institute, 2024-present

Research Field

Editorial Roles:

2023 - present	Associate Editor, Gastroenterology (Impact Factor 25.7)
2021 - present	International Editorial Board, Alimentary Pharmacology and Therapeutics (Impact Factor 7.63)
2020 - present	Associate Editor, Inflammatory Bowel Diseases Journal (Impact Factor 4.5)
2022 - 2023	Editorial Board, GastroHep Advances

Main Scientific Publications

Main Achievements (10 max)

Shung DL, Chan CE, You K, Nakamura S, Saarinen T, Zheng NS, Simonov M, Li DK, Tsay C, Kawamura Y, Shen M, Hsiao A, Sekhon J*, Laine L*. Validation of an Electronic Health Record-Based Machine Learning Model Compared With Clinical Risk Scores for Gastrointestinal Bleeding. Gastroenterology. 2024 Jul 5:S0016-5085(24)05183-7.

Rajashekar NC*, Shin Y*, Pu Y*, Chung S, You K, Giuffre M, Chan C, Saarinen T, Hsiao A, Sekhon J, Wong A, Evans L, Kizilcec R, Laine L, McCall T, **Shung DL**. 2024. Human-Algorithmic Interaction Using a Large Language Model-Augmented Artificial Intelligence Clinical Decision Support System. In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24). Association for Computing Machinery. doi.org/10.1145/3613904.3642024

Kresevic, S., Giuffrè, M., Ajcevic, M. A Accardo, LS Crocè, **DL Shung.** Optimization of hepatological clinical guidelines interpretation by large language models: a retrieval augmented generation-based framework. npj Digit. Med. 7, 102 (2024).

Giuffrè M, Kresevic S, You K, Dupont J, Huebner J, Grimshaw AA, **Shung DL**. Systematic review: The use of large language models as medical chatbots in digestive diseases. Aliment Pharmacol Ther. 2024; 00: 1–23.

Giuffrè M, Kresevic S, Pugliese N, You K, **Shung DL**. Optimizing large language models in digestive disease: strategies and challenges to improve clinical outcomes. Liver Int. 2024; 00: 1-11. doi:10.1111/liv.15974

Alur, R., Laine, L., Li, D. K., Raghavan, M., Shah, D., **Shung, D**. (2023). Auditing for Human Expertise. arXiv preprint arXiv:2306.01646. Proceedings of Neural Information Processing Systems 36. December 2023. **Spotlight Designation (top 3%)**

Giuffrè M, **Shung DL**. Harnessing the power of synthetic data in healthcare: innovation, application, and privacy. NPJ Digit Med. 2023 Oct 9;6(1):186. doi: 10.1038/s41746-023-00927-3.

Shung DL, Lin JK, Laine L. Achieving Value by Risk Stratification with Machine Learning Model or Clinical Risk Score in Acute Upper Gastrointestinal Bleeding: A Cost Minimization Analysis. Am J Gastroenterol. 2023 Sep 27.

Plana D*, **Shung DL***, Grimshaw AA, Saraf A, Sung JJY, Kann BH. Randomized Clinical Trials of Machine Learning Interventions in Health Care: A Systematic Review. JAMA Netw Open. 2022 Sep 1;5(9):e2233946.

Shung DL, Au B, Taylor RA, Tay JK, Laursen SB, Stanley AJ, Dalton HR, Ngu J, Schultz M, and Laine L. Validation of a machine learning model that outperforms clinical risk scoring systems for upper gastrointestinal bleeding. Gastroenterology. 2020 Jan;158(1):160-167.

- **Please note that the above information will be used for the introduction of speakers for the IMKASID 2025 website and announcements. Also, it will be provided to the session chairpersons before your lecture.**
- **Please complete this form (no more than 2 pages) and return it to the IMKASID 2025 secretariat by email,** info@imkasid.kr.